

## Product Evaluation

SHU212 | 0123

Engineering Services Program

The following product has been evaluated for compliance with the wind loads specified in the International Residential Code (IRC) and the International Building Code (IBC).

This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.

This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code, and the Texas Engineering Practice Act.

For more information, contact TDI Engineering Services Program at (800) 248-6032.

**Evaluation ID:** SHU-212

**Effective Date:** January 1, 2023

**Re-evaluation Date:** January 2027

**Product Name:** Brickhouse Bi-Fold Low Profile Colonial Shutters, Impact Resistant

**Manufacturer:** Eastern Metal Supply  
9400 Telge Road  
Houston, TX 77095  
(800) 996-6061

### General Description:

The Brickhouse Bifold Low Profile Colonial shutters are constructed from 6063-T6 aluminum unless otherwise denoted on the drawings. The shutters consist of four (4) panels with an overall dimension of 81" wide x 99-1/2" high. Each panel has an overall dimension of 20-1/8" wide x 99-1/2" high. Each panel consists of extruded aluminum jambs, top and bottom rails, louver blades, hinges, and storm bars. The shutters are constructed in accordance with the approved drawings referenced in this product evaluation report.

The shutters are permanently mounted to the outside of the structure.

### Limitations:

#### Design Drawings:

"Brickhouse Bi Fold Low Profile Colonial Shutter;" manufactured by Eastern Metal Supply; Sheets 1 thru 4 of 4; dated December 22, 2020; Revised October 18, 2022; signed, sealed, and dated

October 18, 2022 by Brandon Jasek, P.E. The stated drawings will be referred to as approved drawings in this report.

**Shutter Configurations:** The Colonial shutters are installed as a single configuration. Refer to the approved drawings for an illustration of the configuration.

**Mounting Conditions:** The Colonial shutters must be wall mounted. Refer to the approved drawings for the specific mounting requirements.

**Wall Construction:** The Colonial shutters may be mounted to the following types of wall framing:

- Wood (minimum Southern Yellow Pine dimension lumber, S.G. = 0.55).

**Allowable Design Pressure:** The allowable design pressure is +/-60.0 psf. **Note:** The shutters must be in a closed and locked position to achieve the allowable design pressure rating

**Maximum Overall Dimensions:** 81" wide x 99-1/2" high x 1-1/2" deep.

**Maximum Dimensions of Individual Panels:** 20-1/8" wide x 99-1/2" high.

**Minimum Separation from Glass:** The minimum glazing separation requirements are specified on the drawing. The shutter assembly is considered a porous impact protective system. The shutters may not be installed below a height of 30 feet on essential facilities as defined ASTM E 1996-14a.

**Product Identification:** The shutter assembly has a permanent label that indicates the manufacturer (Eastern Metal Supply); the name of the product (Brickhouse BiFold Low Profile Colonial Shutter System); the missile level (Missile Level D); the test standards: ASTM E 330-14 ASTM E 1886-13a, ASTM E 1996-14a; and the TDI product evaluation report number (SHU-212).

**Compliance:** The shutter assemblies passed test criteria equivalent to ASTM E 330-14; ASTM E 1886-13a, and ASTM E 1996-14a.

**Impact Resistance:** These shutters have been tested for protection from windborne debris. The assemblies passed Missile Level D and Missile Level A specified in ASTM E 1996-14a. The assemblies may be installed at any height on the structure as long as the design pressure rating for the assembly is not exceeded. The shutters may not be installed below a height of 30 feet on essential facilities as defined ASTM E 1996-14a.

#### **Installation Instructions:**

**General Installation Requirements:** The shutters must be installed in accordance with the manufacturer's installation instructions, the approved drawings, and this product evaluation report. Copies of the approved drawings must be available on the jobsite during inspection of the shutter assembly.

**Anchorage:** The shutters must be anchored to the structure in accordance with the approved drawings. Fasteners must be long enough to penetrate a minimum of 2" into the wall framing.

**Note:** Keep the manufacturer's installation instructions available on the job site during installation. Use corrosion resistant fasteners as specified in the IRC and the IBC.